AMENDMENTS TO THE CLAIMS

The following **Listing of Claims** replaces all prior versions and listings of claims in this application.

What is claimed is:

1. (Currently Amended)   A time~~Time~~ synchronizing device for synchronizing a router arranged between a first and a second communication network, said synchronizing device comprising:

receiving means for receiving first synchronizing data based on a reference time clock from said first communication network, and

exploiting means for exploiting said first synchronizing data (SYNC) ~~so as~~ to synchronize a local time clock used by said router with respect to said reference time clock,

wherein said time synchronizing device comprises:

intercepting means for intercepting ~~at least one~~a message (MSG) coming from ~~at least one~~an apparatus ~~being a point~~ of said ~~first~~second communication network and directed to the~~said second~~first communication network, said apparatus of said second communication network having a specific time clock,

preparing means for preparing a time request intended for said apparatus of said second communication network periodically or responsive to a state of said local time clock of said router, said time request ~~being able to be executed~~for execution in said apparatus of said second communication network ~~so as~~to cause said~~second~~ synchronizing data based on said specific time clock to be obtained from said apparatus of said second communication network and to be transmitted back to said time synchronizing device and to cause caching of the message (MSG),

sending means for sending said time request to said apparatus of said second communication network, and

forwarding means for forwarding said cached, intercepted message (MSG) to said ~~second~~first communication network after the preparing means has prepared said time request,

said receiving means ~~being intended to receive~~for further receiving said second synchronizing data from said apparatus of said second communication network and said exploiting means ~~being able to exploit~~for further exploiting said second synchronizing data ~~so as~~ to synchronize said local time clock with respect to said specific time clock, said receiving means, exploiting means, intercepting means, preparing means, sending means and forwarding means forming an operational set.

2. (Currently amended) The time synchronizing~~Synchronizing~~ device according to claim 1, wherein said intercepting means ~~is intended to intercept~~intercepts said message and said receiving means ~~is intended to receive and extract~~receives and extracts said second synchronizing data in compliance with HTTP protocol.

3. (Currently amended) The time synchronizing~~Synchronizing~~ device according to claim 1, wherein said preparing means ~~is intended to prepare~~prepares the time request in the form of executable scripts~~, preferably~~ based on Java.

4. (Currently amended) The time synchronizing~~Synchronizing~~ device according to claim 1, wherein said forwarding means ~~is intended to forward~~forwards said cached, intercepted message (MSG) to said ~~second~~first communication network only after the exploiting means ~~has exploited~~exploits said second synchronizing data obtained from said apparatus of said second communication network by means of said time request.

5. (Currently Amended) The time synchronizing~~Synchronizing~~ device according to claim 1, wherein said preparing means ~~is able to prepare~~prepares said time request for getting ~~at least~~ one of synchronizing local data time zone and daylight saving time information.

6. (Currently amended) The time synchronizing~~Synchronizing~~ device according to claim 1,

wherein said time synchronizing device comprises updating means for periodically updating said second synchronizing data based on said specific time clock so as to synchronize said local time clock, by periodically activating said operational set, said updating means being preferably intended for using as said intercepted message for each of said updating periods, thea first message received from said firstsecond communication network during said updating period.

7. (Currently amended) The time synchronizingSynchronizing device according to claim 1, wherein said time synchronizing device comprises safety means able to activatefor activating said operational set for at least two successive messages from respectively at least two different apparatus of said second communication network, to compare said second synchronizing data respectively obtained for said successive messages, to check consistency of said synchronizing data and to trigger a warning mechanism in case of inconsistency.

8. (Currently amended) A localLocal gateway intended to be arranged between a LAN and a WAN and to enable communication in both directions between the LAN and the WAN, said local gateway comprising:

a LAN interface for communication with the LAN,

a WAN interface for communication with the WAN,

a local gateway time clock, and

synchronizing means for synchronizing said local gateway time clock with respect to a global reference time clock, by means of first synchronizing data received by said local gateway,

wherein said synchronizing means comprises a time synchronizing device according to claim 1 for synchronizing said local gateway, the time synchronizing device comprising:

intercepting means for intercepting a message (MSG) from an apparatus of the LAN and directed to the WAN, said LAN apparatus having a specific time clock,

preparing means for preparing a time request for said LAN apparatus periodically or responsive to a state of said local gateway time clock, said time request for execution in said LAN apparatus to cause second synchronizing data based on a specific time clock of said

LAN apparatus to be obtained from said LAN apparatus and transmitted back to the time synchronizing device and to cause caching of said message (MSG),

sending means for sending said time request to said LAN apparatus, and

forwarding means for forwarding said cached, intercepted message (MSG) to said WAN after the preparing means has prepared said time request,

said synchronizing means comprising receiving means for receiving said second synchronizing data from said LAN apparatus and exploiting means for exploiting said second synchronizing data to synchronize said local gateway time clock with respect to said specific time clock first and second networks being respectively the LAN and the WAN for all intercepted messages, and said apparatus used for synchronizing being at least one point of said LAN.

9. (Currently amended) The local~~Local~~ gateway according to claim 8, wherein said synchronizing means ~~is also able to synchronize~~synchronizes said local gateway time clock with respect to a~~said~~ global reference time clock available from a timeserver of the WAN.

10. (Currently amended) A method~~Process~~ for time synchronizing a router arranged between first and second communication networks, said ~~time synchronizing process~~method comprising:

receiving first synchronizing data based on a reference time clock from said ~~second~~first communication network, and

exploiting said first synchronizing data ~~so as~~to synchronize a local time clock used by said router with respect to said reference time clock,

wherein said time synchronizing ~~process~~method ~~also~~further comprises:

intercepting at least one message coming from ~~at least one~~an apparatus ~~being a point~~ of said ~~first~~second communication network and directed to the ~~second~~first communication network, said apparatus of said second communication network having a specific time clock,

preparing a time request ~~intended~~for said apparatus of said second communication network periodically or responsive to a state of said local time clock, said time request ~~being~~

~~able~~ to be executed in said apparatus ~~so as~~ to cause ~~said~~second synchronizing data based on said specific time clock to be obtained back from said apparatus and caching of said intercepted message,

      sending said time request to said apparatus, and

      forwarding said cached, intercepted message to said ~~target~~first communication network after said time request has been prepared,

      ~~said receiving including~~ receiving said second synchronizing data from said apparatus and ~~said exploiting including~~ exploiting said second synchronizing data ~~so as~~to synchronize said local time clock with respect to said specific time clock~~,~~

      ~~said time synchronizing process being preferably intended to be executed by means of a time synchronizing device according to claim 1~~.

11. (Currently amended) A computer~~Computer~~ program product comprising program code instructions of a program for the execution of the ~~process~~method according to claim 10 ~~when~~wherein said program is executed on a computer of said router having non-transitory storing space for said program.

12. (New) The time synchronizing device according to claim 1 wherein said cached, intercepted message (MSG) comprises an HTTP information request message directed to a data server of the first communication network.